

Title (en)
TEST BENCH FOR A ROTOR BLADE OR A ROTOR BLADE SEGMENT, ARRANGEMENT COMPRISING SUCH A TEST BENCH AND TEST METHOD

Title (de)
PRÜFSTAND FÜR EIN ROTORBLATT ODER EIN ROTORBLATTSEGMENT, ANORDNUNG MIT EINEM DERARTIGEN PRÜFSTAND UND PRÜFVERFAHREN

Title (fr)
BANC D'ESSAI POUR UNE PALE DE ROTOR OU UN SEGMENT DE PALE DE ROTOR, AGENCEMENT DOTÉ D'UN TEL BANC D'ESSAI ET PROCÉDÉ D'ESSAI

Publication
EP 2741069 B1 20180404 (DE)

Application
EP 13195118 A 20131129

Priority
DE 102012111844 A 20121205

Abstract (en)
[origin: EP2741069A1] The test stand has a support structure (15) that is fastened at the axial end of a rotor blade (10) or the rotor blade segment. A stimulation unit is connected to the excitation of an oscillation of the rotor blade or the rotor blade segment. A load portion (31) is connected to a stationary articulation point for the test operation so that the static bias force is applied on the rotor blade or the rotor blade segment to run the component vertically. The load portion is formed by a motor such as an electrically driven motor. Independent claims are included for the following: (1) a test bench mounted in test bench assembly; and (2) a method for operating a test bench.

IPC 8 full level
G01M 5/00 (2006.01)

CPC (source: EP)
G01M 5/0016 (2013.01); **G01M 5/0058** (2013.01); **G01M 5/0066** (2013.01)

Citation (examination)
• WO 2012097475 A1 20120726 - GEN ELECTRIC [US], et al
• WO 2004005879 A1 20040115 - MIDWEST RESEARCH INST [US], et al
• WO 2010000711 A2 20100107 - VESTAS WIND SYS AS [DK], et al
• WO 2005024266 A1 20050317 - KONINKL PHILIPS ELECTRONICS NV [NL], et al

Cited by
CN107290125A; CN107449574A; EP4092399A1; US2017241860A1; US10209160B2; CN116659788A; EP3722772A1; EP3730916A1; US2022187157A1; WO2016045684A1; WO2020216545A1; EP3805724A1; US11754053B2; WO2022242945A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2741069 A1 20140611; **EP 2741069 B1 20180404**; CN 203824721 U 20140910; DE 102012111844 A1 20140605; DE 102012111844 B4 20150723; DK 2741069 T3 20180716; ES 2668276 T3 20180517

DOCDB simple family (application)
EP 13195118 A 20131129; CN 201320792902 U 20131204; DE 102012111844 A 20121205; DK 13195118 T 20131129; ES 13195118 T 20131129